

iCACGP/IGAC 2022 - Detailed Programme - final version						
Day / Time	Sessions/Activities	Speaker's name	Abstract Number	Early Career?	Country of Affiliation	Title of presentation
Day 1, Saturday, 10th September						
17:00 - 18:00	Arrival/Registration					
18:00 - 19:30	Welcome Ice-Breaker					
Day 2, Sunday, 11th September						
08:00 - 09:00	Arrival/Registration					
09:00 - 09:45	Opening Ceremony					
09:45 - 10:15	Guest Talk	Mike Pilling			UK	
Session 1 - Fundamentals						
10:15 - 10:35	Invited Talk - S1	Merete Bilde			Denmark	Ozonolysis of a-pinene, Δ -3 carene and their mixtures.
10:35 - 11:05	Coffee Break					
11:05 - 12:25	Session 1.1					
	12 min talks (10+2)	Antoine Roose	324	Yes	Switzerland	Surface spectroscopic analysis of aqueous phase iodine oxides : Electron binding energy and surface propensity
		Yinon Rudich	227		Israel	Formation of Secondary Brown Carbon in Biomass Burning Aerosol Proxies through NO ₃ Radical Reactions
		Thorsten Bartels-Rausch	175		Switzerland	Multiphase Chemistry in cold parts of the atmosphere
		Clément Dubois	276	Yes	France	Photochemical reaction of vanillin under pressure: Proof of pressure significance inside atmospheric aerosols
		Sarah Albertin	134	Yes	France	Diurnal variations in N and O isotopes of atmospheric nitrogen dioxide and nitrate: implications for tracing NO _x oxidation pathways and emission sources
		Victoria P Barber	375	Yes	USA	Probing the Multiphase Chemistry of Atmospheric Peroxy and Alkoxy Radicals
12:25 - 13:45	Lunch					
13:45 - 14:05	Invited Talk - S1	Mathew J Evans				HONO as an oxidant in the global remote atmosphere from a nitrate aerosol photolysis source; new observations and modelling to understand the global impacts and significance
14:05 - 15:10	Session 1.2					
	12 min talks (10+2)		374		UK	
		Simone T. Andersen	345	Yes	UK	Fundamental Oxidation Processes in the Remote Marine Atmosphere Investigated Using the NO-NO ₂ -O ₃ Photostationary State
		Jhonathan Ramirez-Gamboa	210	Yes	Australia	COALA-2020: Are SO ₂ and NO _x driving factors for new particle formation over rural areas in South-east Australia?
		Adrien Gandolfo	143	Yes	Ireland	Nitrogen Dioxide Uptake Coefficients Derived from in situ Measurements at a Forested Site in Southern Indiana: Method Validation and Empirical Parametrization
		Helen M Worden	33		USA	Lessons from 22 years of MOPITT
	Sarah Petters	419		Denmark	Constraints on the role of Laplace pressure in multiphase reactions and viscosity of organic aerosols	
15:10 - 15:40	Coffee Break					
Session 2 - Integrated Observations, Modelling, and Analysis						
15:40 - 16:00	Invited Talk - S2	Owen Cooper	11		USA	The Tropospheric Ozone Assessment Report (TOAR): Exploiting modern IT concepts, from web services to machine learning, for the integration and exploration of global ozone observations
16:00 - 16:45	Session 2.1					
	12 min talks (10+2)	Mary Barth	335		USA	Vertical Transport of Trace Gases and Aerosols: Contrasting WRF-Chem, CAM-chem, and MUSICAv0 Results with Field Campaign Observations
		Yugo Kanaya	121		Japan	Rapid reduction in black carbon emissions from China and the dominance of the residential sector: evidence from 2009-2022 observations on Fukue Island, Japan
		Meghna Soni*	192	Yes	India	Impact of climate warming on atmospheric composition over the tropical Indian subcontinent: A key role of enhanced biogenic emissions
16:45 - 17:45	Physical Poster Sessions					
17:45 - 18:05	Invited Talk - S2	Xuemei Wang*	128		China	Prediction of Secondary Air Pollutants: Progresses and Perspectives
18:05 - 19:00	Session 2.2					
		Erika von Schneidmesser	243		Germany	A Global Perspective Comparing Urban NMVOCs Measurements with Representation in Emission Inventories
		Felix Kleinert	300	Yes	Germany	The IntelliAQ project - combining machine learning and air quality

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	12 min talks (10+2)	David Edwards	369		USA	A first look at the diurnal variation of pollutant distributions over Asia using observations from the Geostationary Environment Monitoring Spectrometer (GEMS)
		Adrien Deroubaix	428		Germany	Linking the composition of carbonaceous aerosols and trace gases: Insight from the EMeRGe aircraft campaigns in Europe and East-Asia
Day 3, Monday, 12th September						
09:00 - 09:30	Keynote Talk 1	Jon Abbatt	52		Canada	Multiphase Oxidation Chemistry: Impacts on c
09:30 - 10:25	Session 2.3 - Integrated Observations, Modelling, and Analysis	Nana Wei	429	Yes	UK	Sleuthing errors in reactive nitrogen in the global upper troposphere using recent and historical research aircraft campaigns and GEOS-Chem
	12 min talks (10+2)	Beatriz Herrera	460	Yes	Canada	Ammonia variability and trends from urban and remote ground-based FTIR measurements
		Philipp Franke	264		Germany	Joint evaluation of European anthropogenic trace gas and aerosol emissions in 2016 using EURAD-IMs 4D-var data assimilation method
		Santiago Parraguez	51	Yes	Chile	Obtaining a high-resolution OMI-NO2 product over South America using Generative Adversarial Networks
10:25 - 10:50	Coffee Break					
10:50 - 12:10	Session 2.4	Michael Prather	439		USA	Deconstructing tropospheric chemical reactivities, feedbacks and loss frequencies, parcel by parcel: the ATom data
	12 min talks (10+2)	Qi Ran	244	Yes	China	Climate Responses to NOx Emission Reductions From Aviation During COVID-19 Lockdowns
		Cat Scott	289		UK	Do current Earth System Models capture observed climate driven variation in secondary organic aerosol?
		Cynthia Whaley	48		Canada	New fire and lightning schemes in the Canadian atmospheric global climate model (CanAM)
		Melita Keywood	212		Australia	Trends in remote marine boundary layer ultrafine particle number concentration: the Kennaook/Cape Grim CN3 record 1978-2020.
		Dylan B. Millet	388		USA	Closing the VOC flux budget for a coniferous ecosystem
12:10 - 14:05	Lunch / ECR Lunch					
14:05 - 16:15	Online Parallel Poster Sessions					
16:30 - 16:50	Session 3 - Air Quality and Impacts Invited Talk - S3	Maria de Fátima Andrade*	467		Brazil	Air quality and perspectives learned during the COVID-19
16:50 - 18:00	Session 3.1	Shyno Susan John	29	Yes	Australia	Impact of indigenous fire management on the annual cycle of carbon monoxide over Northern Australia
	12 min talks (10+2)	Shahid Uz Zaman*	120	Yes	Bangladesh	Spatial and temporal variation of aerosol optical depths and aerosol climatology characterization over Bangladesh using ground-based and remotely sensed satellite measurements
		Prajjwal Rawat *	132	Yes	India	Long-term Variations of Tropospheric Ozone and Precursor gases over the Himalayan and Foothill Region: Observations from Ozonesonde, MAX-DOAS, and Satellite
		Kristen Zuraski *	376		USA	High resolution reactive nitrogen and ozone spatial distributions and emission factors in two southwestern U.S. cities
18:00 - 19:20	Physical Poster Sessions					
Day 4, Tuesday, 13th September						
09:00 - 09:35	Keynote Talk 2	Lidia Morawska*			Australia	The future of indoor air: on the crossroads between science, technology and politics
09:35 - 10:55	Session 3.2 - Air Quality and Impacts	Markus Kalberer	379		Switzerland	High Time Resolution Online Quantification of Oxidative Particle Properties Indicate Photochemical Processes as Dominant Sources for this Novel Particle Toxicity Proxy
	12 min talks (10+2)	Ediclê Duarte	432	Yes	Brazil	The influence of long-range smoke transport from the Pantanal 2020 megafires on air quality in the state of São Paulo.
		Bianca Meotti *	449	Yes	Brazil	Improving spatial disaggregation of vehicular emission
		Hari Ram C. R.	455	Yes	Sweden	COVID lockdown unveils the aerosol masking effect on global warming
		Ziqiong Wang	59	Yes	UK	Declining anthropogenic emissions and improving air quality over China

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		Ailish Graham	68		UK	Simulating the impacts of present-day and future agricultural emissions on air pollution
10:55 - 11:25	Coffee Break					
11:25 - 11:45	Invited Talk - S3	S. Suresh Babu*			India	Aerosols and air quality over South Asia from Long term observations and Modelling
11:45 - 13:05	Session 3.3					
		Hongbin Yu	116		USA	Global Premature Mortality by Dust and Pollution PM2.5 Estimated from the MERRA-2 Aerosol Reanalysis
		Eloise A Marais	313		UK	Agricultural emissions of ammonia most effective lever for UK to meet the World Health Organization guideline for fine particles
	12 min talks (10+2)	Alex Guenther	203		USA	Urban biogenic VOC emissions and air quality
		Flossie Brown	417	Yes	UK	The ozone-climate penalty over South America and Africa by 2100
		Karn Vohra	368	Yes	UK	Rapid rise in premature mortality in fast-growing tropical cities due to anthropogenic air pollution
		James D Allan	341		UK	Refractive index of black carbon (BC) and brown carbon (BrC) particles using aerodynamic aerosol classification
19:00 - 23:00	Conference Dinner	All Participants				
Day 5, Wednesday, 14th September						
	Session 4 - Atmospheric Chemistry at the Interfaces					
09:00 - 09:20	Invited Talk - S4	Tara Kahan*	334		Canada	Distribution and Speciation of Solutes at Air-Ice Interfaces: Implications for Pollutant Fate
09:20 - 10:40	Session 4.1					
		Mathew J Evans	1		UK	Influence of a new 'aerosol inhibited' photochemical ozone regime.
		Steph Schneider	107	Yes	Canada	The Relative Contribution of Ozonolysis and Photolysis of the Sea Surface Microlayer as a Source of Volatile Organic Compounds in the Canadian Arctic
	12 min talks (10+2)	Lucy Brown	66	Yes	UK	The Chemical Controls on the Uptake of Ozone to Seawater
		Seb. Zeppenfeld	166	Yes	Germany	Oceanic Transfer and Atmospheric Transformation of Marine Carbohydrates in the Arctic and the Southern Ocean west of the Antarctic Peninsula
		Prodip Acharja	177	Yes	India	Thermodynamical roadmap to effectively mitigate high aerosol loading during winter over the Indo-Gangetic Plain (IGP)
		Yongxiang Hu	14		USA	A potential feedback mechanism of springtime Arctic snow/ice algae, iodic acid aerosols and Arctic clouds
10:40 - 11:10	Coffee Break					
11:10 - 11:30	Invited Talk - S4	Jonathan Reid	465		UK	Connecting the physicochemical with the biological: Viruses and bacteria in atmospheric aerosol
11:30 - 12:25	Session 4.2					
		Hisahiro Takashima	138		Japan	Iodine monoxide (IO) variations in the global marine boundary layer
	12 min talks (10+2)	Akinori Ito	241		Japan	Marine aerosol feedback on biogeochemical cycles and climate in the Pacific Ocean
		Zhiqiang Zhang*	249	Yes	China	Phase state in secondary organic aerosols over China simulated by WRF-Chem
		Jessica M Burger*	42	Yes	South Africa	A seasonal analysis of aerosol NO3- sources and NOx oxidation pathways in the Southern Ocean marine boundary layer
12:25 - 13:40	Lunch					
13:40 - 15:40	Online Parallel Poster Sessions					
	Session 5 - Future Perspectives and Policy					
15:55 - 16:15	Invited Talk - S5	Hiroshi Tanimoto			Japan	Challenges for the GOSAT-GW satellite mission to better quantify anthropogenic emissions of greenhouse gases and air pollutants for climate policy
16:15 - 17:10	Session 5.1					
		K. Emma Knowland	380		USA	NASA GEOS Composition Forecast System, GEOS-CF: Overview, Applications, and Future Directions
	12 min talks (10+2)	Glen Chua	361		USA	Sensitivity of Climate and Composition to Concomitant Idealised Future Changes in Methane and Hydrogen Emissions
		Saewung Kim	359		USA	Empirical Determination of instantaneous tropospheric ozone production regimes
		Sungeun Kim	141	Yes	Korea	Particulate Matter Pollution and Science-Policy Interface in South Korea
17:10 - 17:40	Group Photo	All Participants				

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17:40 - 19:10 Physical Poster Sessions						
Day 6, Thursday, 15th Sept						
09:00 - 09:30	Keynote Talk 3	Vaishali Naik	382		USA	Atmospheric Chemistry-Climate interactions - what the future holds?
Session 5 - Future Perspectives and Policy, cont.						
09:30 - 09:50	Invited Talk - S5	Sally Pusede *	471		USA	Space-based observations of nitrogen dioxide inequality in U. S. cities
09:50 - 10:55	Session 5.2					
	12 min talks (10+2)	Kumaresan Palaniyappan	424	Yes	India	Impacts on climate change and air quality in Indian agriculture: Research, Policy and Regulations.
		Amber M Yeoman	20	Yes	UK	Indoor air quality: Consumer product VOCs and the challenges of regulation
		Camilo Rodriguez-Beltran	322		Chile	Platform for Standardization, Characterization and Calibration of low-cost Air and Water sensors in Chile: Challenges and Opportunities
		William J Collins	275		UK	Quantifying the contributions of reactive gas emissions to past a future climate change.
		Carly Reddington	89		UK	Global air quality and public health co-benefits from transitioning to a low carbon future
10:55 - 11:30	Coffee Break					
11:30 - 12:15	Paul Crutzen Award - iCACGP					
12:15 - 12:45	Closing Ceremony					